

What is claimed is:

1. A prepolymer (A) having end groups of the general formula [1]

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where

10 R^1 is an optionally halogen-substituted alkyl, cycloalkyl, alkenyl or aryl radical having 1-10 carbon atoms,

R^2 is an alkyl radical having 1-6 carbon atoms or an ω -oxaalkyl-alkyl radical having in all 2-10 carbon atoms, and

15 a is a number from 0 to 2,

the prepolymer (A) being obtainable by reacting

1) polyol (A1) having an average molecular weight M_n of 1000 to 25 000,

20 2) low molecular weight alcohol (A2) having at least two hydroxyl groups per molecule and a molecular weight of 62 to 300,

3) di- or polyisocyanate (A3), and

4) alkoxysilane (A4) possessing an isocyanate group or an isocyanate-reactive group,

25 the low molecular weight alcohol (A2) and the polyol (A1) being used in a molar ratio of 0.3:1 to 7:1.

30 2. The prepolymer (A) as claimed in claim 1, which is isocyanate-free.

3. The prepolymer (A) as claimed in claim 1 or 2, in which the alkoxysilane-terminated polymer (A) possesses end groups of the general formula [2]

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where

A is a divalent linking group selected from -O-,
-S-, $-(R^3)N-$, $-O-CO-N(R^3)-$, $-N(R^3)-CO-O-$,
-NH-CO-NH-, $-N(R^4)-CO-NH-$, $-NH-CO-N(R^4)-$, and
 $-N(R^4)-CO-N(R^4)-$,

5 R^3 is hydrogen, an optionally halogen-substituted
cyclic, linear or branched C_1 to C_{18} alkyl
radical or alkenyl radical or a C_6 to C_{18} aryl
radical,

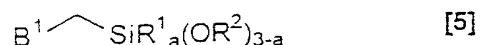
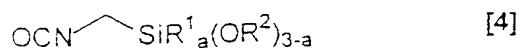
10 R^4 is an optionally halogen-substituted cyclic,
linear or branched C_1 to C_{18} alkyl radical or
alkenyl radical or a C_6 to C_{18} aryl radical,
and R^1 , R^2 and a are as defined for the general
formula [1] as in claim 1.

15 4. The prepolymer (A) as claimed in any one of
claims 1 to 3, in which the polyols (A1) are
selected from hydroxyl-functional polyethers,
polyesters, polyacrylates and polymethacrylates,
polycarbonates, polystyrenes, polysiloxanes, poly-
20 amides, polyvinyl esters, polyvinyl hydroxides and
polyolefins.

5. The prepolymer (A) as claimed in any one of
claims 1 to 4, in which the low molecular weight
25 alcohols (A2) are selected from glycol, 1,3-
propanediol, 1,3-butanediol, 1,4-butanediol,
regioisomeric pentadiols and hexadiols, ethylene
glycol and propylene glycol.

30 6. The prepolymer (A) as claimed in any one of
claims 1 to 5, in which the di- or polyisocyanates
(A3) are selected from diisocyanatodiphenylmethane
(MDI), tolylene diisocyanate (TDI), diisocyanato-
naphthalene (NDI), isophorone diisocyanate (IPDI),
35 perhydrogenated MDI (H-MDI), hexamethylene
diisocyanate (HDI), polymeric MDI (P-MDI),
triphenylmethane triisocyanate, isocyanurate
triisocyanates and biuret triisocyanates.

7. The prepolymer (A) as claimed in any one of claims 1 to 6, in which the alkoxysilanes (A4) are selected from silanes of the general formulae [4] and [5]



where

- 10 B^1 is an OH, SH or NH_2 group or a group HR^4N and R^1 , R^2 , R^4 and a are as defined for the general formulae [1] and [2] as in claim 1 and claim 3.

8. A composition (M) comprising a prepolymer as claimed in any one of claims 1 to 7.
- 15 9. The composition (M) as claimed in claim 8, comprising fillers (E) selected from calcium carbonate, silica, and carbon black.
- 20 10. The composition (M) as claimed in claim 8, containing no fillers (E).
11. The composition (M) as claimed in any one of claims 8 to 10, containing 0-20% by volume of an organic solvent (F).
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